

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Kreiswirth et al.

Application No.: 10/078,256

Filed: February 13, 2001



:
:
: Attorney docket: 19124.0012
:
: Art unit: 1631
:
: Examiner: to be assigned

Title: SYSTEM AND METHOD FOR TRACKING AND CONTROLLING INFECTIONS

Submission of Sequence Listing and Computer Readable Form

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

In response to the Notice To File Missing Parts Of Application, Applicants submit the attached Sequence Listing and Computer Readable Form, which corresponds the Sequence Listing.

The undersigned hereby authorizes the Commissioner to charge any fee insufficiency or credit any overpayment associated with this communication to deposit account 19-5127, referencing 19124.0012.

Respectfully submitted,

Date:

4-23-02

A handwritten signature in cursive script, appearing to read "Eric J. Franklin".

Eric J. Franklin, Reg. No. 37,134
Attorney for Applicants
Swidler Berlin Shereff Friedman
3000 K Street, NW
Suite 300
Washington, DC 20007
Telephone: 202-424-7500

19124-0012.ST25.txt
SEQUENCE LISTING

<110> Kreiswirth, Barry N
Nadich, Steven M

<120> System and Method for Tracking and Controlling Infections

<130> 19124.0002

<140> US 09/656,084

<141> 2000-09-06

<160> 80

<170> PatentIn version 3.1

<210> 1

<211> 24

<212> DNA

<213> Staphylococcus aureus

<400> 1

gaggaagaca acaaaaaaacc tggc
24

<210> 2

<211> 24

<212> DNA

<213> Staphylococcus aureus

<400> 2

aaagaagaca acaaaaaaacc tggc
24

<210> 3

<211> 24

<212> DNA

<213> Staphylococcus aureus

<400> 3

aaagaagaca acaaaaaaacc tggc
24

<210> 4

<211> 24



<212> DNA
<213> Staphylococcus aureus

<400> 4
aaagaagaca acaacaaacc tggt
24

<210> 5
<211> 24
<212> DNA
<213> Staphylococcus aureus

<400> 5
aaagaagaca acaacaagcc tggt
24

<210> 6
<211> 24
<212> DNA
<213> Staphylococcus aureus

<400> 6
aaagaagaca acaacaaacc tggc
24

<210> 7
<211> 24
<212> DNA
<213> Staphylococcus aureus

<400> 7
aaagaagacg gcaacaaacc tggc
24

<210> 8
<211> 24
<212> DNA
<213> Staphylococcus aureus

<400> 8
aaagaagacg gcaacaaacc tggt
24

<210> 9
 <211> 24
 <212> DNA
 <213> Staphylococcus aureus

<400> 9
 aaagaagacg gcaacaagcc tggc
 24

<210> 10
 <211> 240
 <212> DNA
 <213> Staphylococcus aureus

<400> 10
 gaggaagaca acaaaaaacc tggtaaagaa gacggcaaca aacctggcaa agaagacggc
 60

aacaagcctg gtaaagaaga caacaacaaa cctggtaaag aagacggcaa caagcctggc 1
 20

aaagaagaca acaacaaacc tggcaaagaa gacggcaaca agcctggtaa agaagacaac 1
 80

aacaagcctg gtaaagaaga cggcaacaag cctggtaaag aagacggcaa caaacctggc 2
 40

<210> 11
 <211> 10
 <212> DNA
 <213> Staphylococcus aureus

<400> 11
 attcatagat
 10

<210> 12
 <211> 10
 <212> DNA
 <213> Staphylococcus aureus

<400> 12
 cgtactatcc
 10

<210> 13
<211> 10
<212> DNA
<213> Staphylococcus aureus

<400> 13
attcggtata
10

<210> 14
<211> 10
<212> DNA
<213> Staphylococcus aureus

<400> 14
attaatagat
10

<210> 15
<211> 10
<212> DNA
<213> Staphylococcus aureus

<400> 15
cgtactatcc
10

<210> 16
<211> 10
<212> DNA
<213> Staphylococcus aureus

<400> 16
attcggtata
10

<210> 17
<211> 12
<212> DNA
<213> Staphylococcus aureus

<400> 17
aattcgctta gg

12

<210> 18
 <211> 12
 <212> DNA
 <213> Staphylococcus aureus

<400> 18
 aattccccta gg
 12

<210> 19
 <211> 8
 <212> DNA
 <213> Staphylococcus aureus

<400> 19
 taggccgt
 8

<210> 20
 <211> 12
 <212> DNA
 <213> Staphylococcus aureus

<400> 20
 ttaaaggcct ga
 12

<210> 21
 <211> 12
 <212> DNA
 <213> Staphylococcus aureus

<400> 21
 ggtccaata at
 12

<210> 22
 <211> 8
 <212> DNA
 <213> Staphylococcus aureus

<400> 22
 ggtaacc
 8

<210> 23
 <211> 1070
 <212> DNA
 <213> Enterococcus faecalis

<400> 23
 tttttcttgg caattttggt cgtattatcc gcttttttga ctgttcctga cgattcttga
 60

tttgtctgta tctgtttagt tgcttggttt tctgctactg attcctttgt ttgactagcc 1
 20

ttggcagagg gctttgaatt actttgagcg tcattaggat cttgattaga ctctaccgcg 1
 80

taaatgacag aattctggcc tttgctttgg ctactttcgt ttacagtgct tggggtgcta 2
 40

ctctcacttg tattgttggg tgcgctggtt gtacttgaag cactactttc gctggtacta 3
 00

cttgttttac tggttgtact tgggtgtgtg ctttcatttg tattgcttgt ttcacttgtc 3
 60

gtacttgagg tactactttc gctggtacta ctggtttcgc tggttgtgct tggcgtgttg 4
 20

ctttcactcg tactactgct ctcacttgtc gtgcttggcg tgctgctttc gcttgtatta 4
 80

ctggtttcac ttgtcgtgct tgaggtgctg ctttcgctgg tactactgct ctcacttgtc 5
 40

gtgcttggcg tgctgctttc gctggtacta ctgctttcac ttgtcgtgct tgaggtacta 6
 00

ctttcgcttg tattactggt ttcgctagtt gtacttgggtg tgttgctttc atttgtattg 6
 60

cttgtttcac ttgtcgtgct tgaggtgctg ctttcgcttg tattactggt tttactgggt 7
 20

gtacttgggtg tattgctttc atttgtattg cttgtttcac ttgttgtact tgaggtgctg 7

80

ctttcgcttg tattactggg ttcactgggt gtgcttgagg tgctgcttcc gcttggttta 8
40

ctagttgtct ctgttgattt ttcaactaac agaagtaacg ccgtttttat gggttggttt 9
00

aattgattaa tacgcttttg tgcactctga gccgttttaa agccaccaag tgttggtctt 9
60

aataattctt catctgacca agcaagcagt tgttgtaact gcttagagct tccttcgcca 10
20

gttggtgtat ctattaaggc ttcttgcatg gcttgccaag agtctttggt 10
70

<210> 24
<211> 45
<212> DNA
<213> Enterococcus faecalis

<400> 24
gtgcttgagg tgctactctc acttgattg ttggttgccc tgggt
45

<210> 25
<211> 45
<212> DNA
<213> Enterococcus faecalis

<400> 25
gtacttgaag cactactttc gctggtacta cttgttttac tgggt
45

<210> 26
<211> 45
<212> DNA
<213> Enterococcus faecalis

<400> 26
gtacttggtg tgttgcttcc atttgattg cttgtttcac ttgtc
45

<210> 27
<211> 45
<212> DNA
<213> Enterococcus faecalis

<400> 27
gtacttgagg tactactttc gctggtacta ctggtttcgc tggtt
45

<210> 28
<211> 45
<212> DNA
<213> Enterococcus faecalis

<400> 28
gtgcttggcg tgttgctttc actcgtacta ctgctctcac ttgtc
45

<210> 29
<211> 45
<212> DNA
<213> Enterococcus faecalis

<400> 29
gtgcttggcg tgctgctttc gcttggtatta ctggtttcac ttgtc
45

<210> 30
<211> 45
<212> DNA
<213> Enterococcus faecalis

<400> 30
gtgcttgagg tgctgctttc gctggtacta ctgctctcac ttgtc
45

<210> 31
<211> 45
<212> DNA
<213> Enterococcus faecalis

<400> 31
gtgcttggcg tgctgctttc gctggtacta ctgctttcac ttgtc
45

<210> 32
<211> 45
<212> DNA
<213> Enterococcus faecalis

<400> 32
gtgcttgagg tactactttc gcttgtatta ctggtttcgc tagtt
45

<210> 33
<211> 45
<212> DNA
<213> Enterococcus faecalis

<400> 33
gtgcttgagg tgctgctttc gcttgtatta ctggttttac tggtt
45

<210> 34
<211> 45
<212> DNA
<213> Enterococcus faecalis

<400> 34
gtacttggtg tattgctttc atttgtattg cttgtttcac ttgtt
45

<210> 35
<211> 45
<212> DNA
<213> Enterococcus faecalis

<400> 35
gtacttgagg tgctgctttc gcttgtatta ctggtttcac tggtt
45

<210> 36
<211> 45
<212> DNA
<213> Enterococcus faecalis

<400> 36

gtgcttgagg tgctgctttc gcttggtgta ctagttgtct ctggt
45

<210> 37
<211> 22
<212> DNA
<213> Enterococcus faecalis

<400> 37
gaattctggc ctttgctttg gc
22

<210> 38
<211> 20
<212> DNA
<213> Enterococcus faecalis

<400> 38
cgccgttttt atggtttgtg
20

<210> 39
<211> 15
<212> PRT
<213> Enterococcus faecalis

<400> 39

Val	Leu	Gly	Val	Leu	Leu	Ser	Leu	Val	Leu	Leu	Val	Ala	Leu	Val
1				5					10					15

<210> 40
<211> 15
<212> PRT
<213> Enterococcus faecalis

<400> 40

Val	Leu	Glu	Ala	Leu	Leu	Ser	Leu	Val	Leu	Leu	Val	Leu	Leu	Val
1				5					10					15

<210> 41
<211> 15

<212> PRT

<213> Enterococcus faecalis

<400> 41

Val Leu Gly Val Leu Leu Ser Phe Val Leu Leu Val Ser Leu Val
1 5 10 15

<210> 42

<211> 15

<212> PRT

<213> Enterococcus faecalis

<400> 42

Val Leu Glu Val Leu Leu Ser Leu Val Leu Leu Val Ser Leu Val
1 5 10 15

<210> 43

<211> 15

<212> PRT

<213> Enterococcus faecalis

<400> 43

Val Leu Gly Val Leu Leu Ser Leu Val Leu Leu Val Ser Leu Val
1 5 10 15

<210> 44

<211> 15

<212> PRT

<213> Enterococcus faecalis

<400> 44

Val Leu Glu Val Leu Leu Ser Leu Val Leu Leu Leu Ser Leu Val
1 5 10 15

<210> 45

<211> 15

<212> PRT

<213> Enterococcus faecalis

<400> 45

Val Leu Gly Val Leu Leu Ser Leu Val Leu Leu Leu Ser Leu Val
 1 5 10 15

<210> 46
 <211> 15
 <212> PRT
 <213> Enterococcus faecalis

<400> 46

Val Leu Glu Val Leu Leu Ser Leu Val Leu Leu Val Leu Leu Val
 1 5 10 15

<210> 47
 <211> 15
 <212> PRT
 <213> Enterococcus faecalis

<400> 47

Val Leu Gly Val Leu Leu Ser Phe Val Leu Leu Val Ser Leu Val
 1 5 10 15

<210> 48
 <211> 15
 <212> PRT
 <213> Enterococcus faecalis

<400> 48

Val Leu Glu Val Leu Leu Ser Leu Val Leu Leu Val Val Ser Val
 1 5 10 15

<210> 49
 <211> 1365
 <212> DNA
 <213> Helicobacter pylori

<400> 49

atgttcacgc cctattaga cgcttataca gacagcaccg gtttagatga aaccgattat
 60

aagcccccat taaatatagc cctagccaat tgggtggcctt tggataaaaag agaaagcaaa 1

20

gggtttaggc gttttatctt gtatttcac ttaagccaac gctacacaat caccctccac 1
80

caaaacccta acgaaccctc cgatcttgtc tttggcagtc ctattggatc agccagaaaa 2
40

atcctatcct atcaaaacac taaaaggggtg ttttacaccg gtgaaaatga agtcctaat 3
00

ttcaatctct ttgattacgc cataggcttt gatgaattgg acttttagaga tcgttatttg 3
60

agaatgcctt tatattacgc tagcttgcat tataaagccg agagcgtgaa tgacaccacc 4
20

gcgccttaca aactcaaaga caacagcctt tatgctttaa aaaagccctc ccatcatttt 4
80

aaagaaaacc accctaattt atgcgcagta gtgaatgatg agagcgatcc tttgaaaaga 5
40

gggtttgcca gctttgtcgc gagcaaccct aacgctccta taaggaacgc tttctatgac 6
00

gcttttaaatt ctattgagcc agttactggg ggagggagcg tgaaaaacac tttaggctat 6
60

aacgtcaaaa acaagagcga gtttttaagc caatacaaat tcaatctgtg ttttgaaaac 7
20

actcaaggct atggctatgt aactgaaaaa atcattgacg cttatttcag ccacaccatt 7
80

cccatttatt gggggagtcc tagcgtggcg aaagacttta accctaagag ttttgtgaac 8
40

gtttgtgatt ttaaaaactt tgatgaagcg attgattacg tgagatactt gcacacgcac 9
00

ccaaacgctt atttagacat gctctatgaa aaccctttaa acacccttga tgggaaagct 9
60

tacttttacc aaaatttgag ttttaaaaaa atcctagatt tttttaaaac gatttttagaa 10
20

aacgacacga tctatcacga taaccctttc attttctatc gcgatttgaa tgagccttta 10

80

gtagctattg atgatttgag ggttaattat gatgatttga gggttaatta tgatgatttg 11
40

agggttaatt atgatgattt gagggttaat tatgatgatt tgagggttaa ttatgatgat 12
00

ttgagggtta attatgatga tttgagggtt aattatgatc gccttttaca aaacgcttcg 12
60

cctttattag aactctctca aaacaccact tttaaaatct atcgcaaagc ctatcaaaaa 13
20

tccttacctt tgttgcgcac cataaggaga tgggttaaaa aataa 13
65

<210> 50

<211> 21

<212> DNA

<213> Helicobacter pylori

<400> 50

gatgatttga gggttaatta t
21

<210> 51

<211> 26

<212> DNA

<213> Helicobacter pylori

<400> 51

gcacacgcac ccaaacgctt atttag
26

<210> 52

<211> 26

<212> DNA

<213> Helicobacter pylori

<400> 52

cgcaccataa ggagatgggt taaaaa
26

<210> 53
 <211> 7
 <212> PRT
 <213> Helicobacter pylori

<400> 53

Asp Leu Arg Val Asn Tyr Asp
 1 5

<210> 54
 <211> 1059
 <212> DNA
 <213> Staphylococcus aureus

<400> 54

aataatgaga atgttgtacg ttatggtggt ggaagtgctg atggtgattc agcagtaa
 60

ccgaaagacc caactccagg gccgccggtt gacccagaac caagtccaga cccagaacca 1
 20

gaaccaacgc cagatccaga accaagtcca gacccagaac cggaaccaag cccagacccg 1
 80

gatccggatt cggattcaga cagtgactca ggctcagaca gcgactcagg ttcagatagc 2
 40

gactcagaat cagatagcga ttcggattca gacagtgatt cagattcaga cagcgactca 3
 00

gaatcagata gcgattcaga atcagatagc gactcagatt cagatagcga ttcagattca 3
 60

gatagcgatt cagattcaga tagcgattcg gattcagaca gtgattcaga ttcagacagc 4
 20

gactcagaat cagatagcga ctcagaatca gatagtgagt cagattcaga cagtgactcg 4
 80

gactcagaca gtgattcaga ctcagatagc gattcagact cagatagcga ttcagattca 5
 40

gacagcgact cagattcaga cagcgactca gactcagata gcgactcaga ctcagacagc 6
 00

gactcagatt cagatagcga ttcagactca gacagcgact cagactcaga cagcgactca 6

60

gactcagata gcgactcaga ttcagatagc gattcagact cagacagcga ctcagattca 7
20

gatagcgatt cggactcaga cagcgattca gattcagaca gcgactcaga ctcggatagc 7
80

gattcagatt cagatagcga ttcggattca gacagtgatt cagattcaga cagcgactca 8
40

gactcggata gcgactcaga ctcagacagc gattcagact cagatagcga ctcagactcg 9
00

gatagcgact cggattcaga tagcgactca gactcagata gtgactccga ttcaagagtt 9
60

acaccaccaa ataatgaaca gaaagcacca tcaaataccta aaggtgaagt aaaccattct 10
20

aataaggtat caaaacaaca caaaactgat gctttacca 10
59

<210> 55

<211> 18

<212> DNA

<213> Staphylococcus aureus

<400> 55

gattcggatt cagacagt

18

<210> 56

<211> 18

<212> DNA

<213> Staphylococcus aureus

<400> 56

gactcaggct cagacagc

18

<210> 57

<211> 18

<212> DNA

<213> Staphylococcus aureus

<400> 57
gactcaggtt cagatagc
18

<210> 58
<211> 18
<212> DNA
<213> Staphylococcus aureus

<400> 58
gactcagaat cagatagc
18

<210> 59
<211> 18
<212> DNA
<213> Staphylococcus aureus

<400> 59
gattcagatt cagacagc
18

<210> 60
<211> 18
<212> DNA
<213> Staphylococcus aureus

<400> 60
gattcagaat cagatagc
18

<210> 61
<211> 18
<212> DNA
<213> Staphylococcus aureus

<400> 61
gactcagatt cagatagc
18

<210> 62
<211> 18

<212> DNA
<213> Staphylococcus aureus

<400> 62
gattcagatt cagatagc
18

<210> 63
<211> 18
<212> DNA
<213> Staphylococcus aureus

<400> 63
gactcagaat cagatagt
18

<210> 64
<211> 18
<212> DNA
<213> Staphylococcus aureus

<400> 64
gagtcagatt cagacagt
18

<210> 65
<211> 18
<212> DNA
<213> Staphylococcus aureus

<400> 65
gactcggact cagacagt
18

<210> 66
<211> 18
<212> DNA
<213> Staphylococcus aureus

<400> 66
gattcagact cagatagc
18

<210> 67
<211> 18
<212> DNA
<213> Staphylococcus aureus

<400> 67
gactcagatt cagacagc
18

<210> 68
<211> 18
<212> DNA
<213> Staphylococcus aureus

<400> 68
gactcagact cagatagc
18

<210> 69
<211> 18
<212> DNA
<213> Staphylococcus aureus

<400> 69
gactcagact cagacagc
18

<210> 70
<211> 18
<212> DNA
<213> Staphylococcus aureus

<400> 70
gattcagact cagacagc
18

<210> 71
<211> 18
<212> DNA
<213> Staphylococcus aureus

<400> 71
gattcggact cagacagc
18

<210> 72
<211> 18
<212> DNA
<213> Staphylococcus aureus

<400> 72
gactcagact cggatagc
18

<210> 73
<211> 18
<212> DNA
<213> Staphylococcus aureus

<400> 73
gactcggatt cagatagc
18

<210> 74
<211> 18
<212> DNA
<213> Staphylococcus aureus

<400> 74
gactcagact cagatagt
18

<210> 75
<211> 18
<212> DNA
<213> Staphylococcus aureus

<400> 75
gactccgatt caagagtt
18

<210> 76
<211> 23
<212> DNA
<213> Staphylococcus aureus

<400> 76

tcagcagtaa atccgaaaga ccc
23

<210> 77
<211> 22
<212> DNA
<213> Staphylococcus aureus

<400> 77
gcaccatcaa atcctaaagg tg
22

<210> 78
<211> 265
<212> PRT
<213> Staphylococcus aureus

<400> 78

Pro Glu Pro Ser Pro Asp Pro Glu Pro Glu Pro Thr Pro Asp Pro Glu
1 5 10 15

Pro Ser Pro Asp Pro Glu Pro Glu Pro Ser Pro Asp Pro Asp Pro Asp
20 25 30

Ser Asp Ser Asp Ser Asp Ser Gly Ser Asp Ser Asp Ser Gly Ser Asp
35 40 45

Ser Asp Ser Glu Ser Asp Ser Asp Ser Asp Ser Asp Ser Asp Ser Asp
50 55 60

Ser Asp Ser Asp Ser Glu Ser Asp Ser Asp Ser Glu Ser Asp Ser Asp
65 70 75 80

Ser Asp Ser Asp Ser Asp Ser Asp Ser Asp Ser Asp Ser Glu Ser Asp
85 90 95

Ser Asp Ser Asp Ser Asp Ser Asp Ser Asp Ser Asp Ser Glu
100 105 110

Ser Asp Ser Asp Ser Glu Ser Asp Ser Glu Ser Asp Ser Asp Ser Asp
 115 120 125

Ser Asp Ser Asp Ser Asp Ser Asp Ser Asp Ser Asp Ser Asp Ser Asp
 130 135 140

Ser Asp Ser Asp Ser Asp Ser Asp Ser Asp Ser Asp Ser Asp Ser Glu
 145 150 155 160

Ser Asp Ser Asp Ser Asp Ser Asp Ser Asp Ser Asp Ser Asp Ser Asp
 165 170 175

Ser Asp Ser Asp Ser Asp Ser Asp Ser Asp Ser Asp Ser Asp Ser Asp
 180 185 190

Ser Asp Ser Asp Ser Asp Ser Asp Ser Asp Ser Asp Ser Asp Ser Asp
 195 200 205

Ser Asp Ser Asp Ser Asp Ser Asp Ser Asp Ser Asp Ser Asp Ser Asp
 210 215 220

Ser Asp Ser Asp Ser Asp Ser Asp Ser Asp Ser Asp Ser Asp Ser Asp
 225 230 235 240

Ser Asp Ser Asp Ser Asp Ser Asp Ser Asp Ser Arg Val Thr Pro Pro
 245 250 255

Asn Asn Glu Gln Lys Ala Pro Ser Asn
 260 265

<210> 79
 <211> 18
 <212> DNA
 <213> Staphylococcus aureus

<400> 79
 gactcagaat cagacagc

18

<210> 80
<211> 18
<212> DNA
<213> Staphylococcus aureus

<400> 80
gactcggatt cagatagt
18